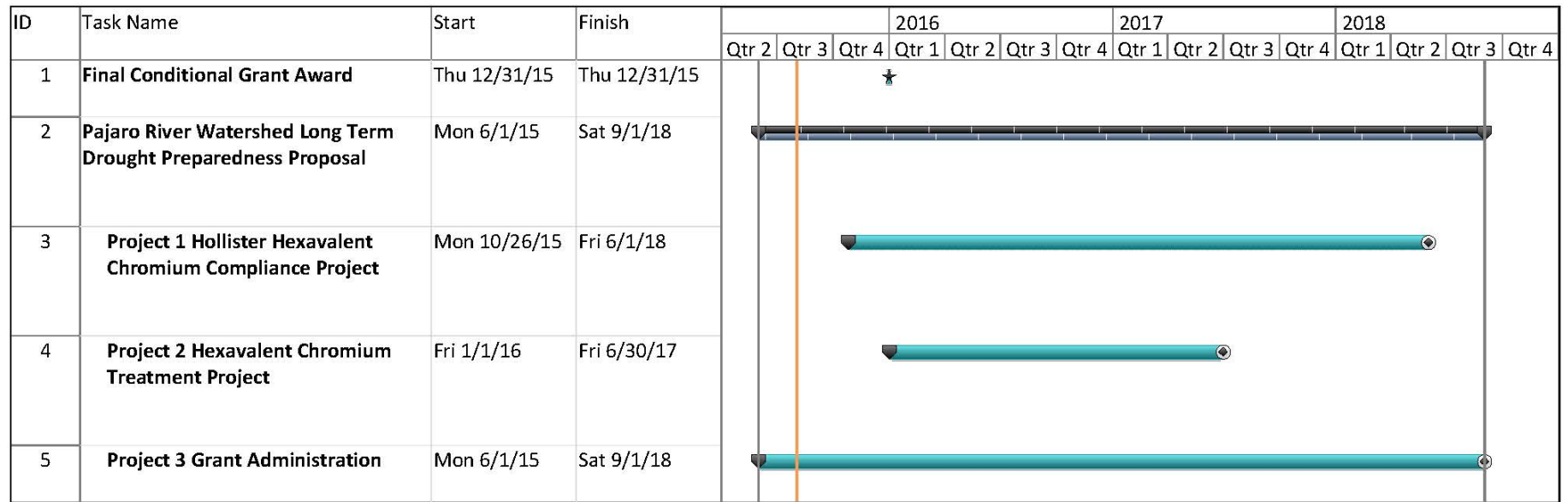


Pajaro River Watershed Long Term Drought Preparedness

ATTACHMENT 5: SCHEDULE

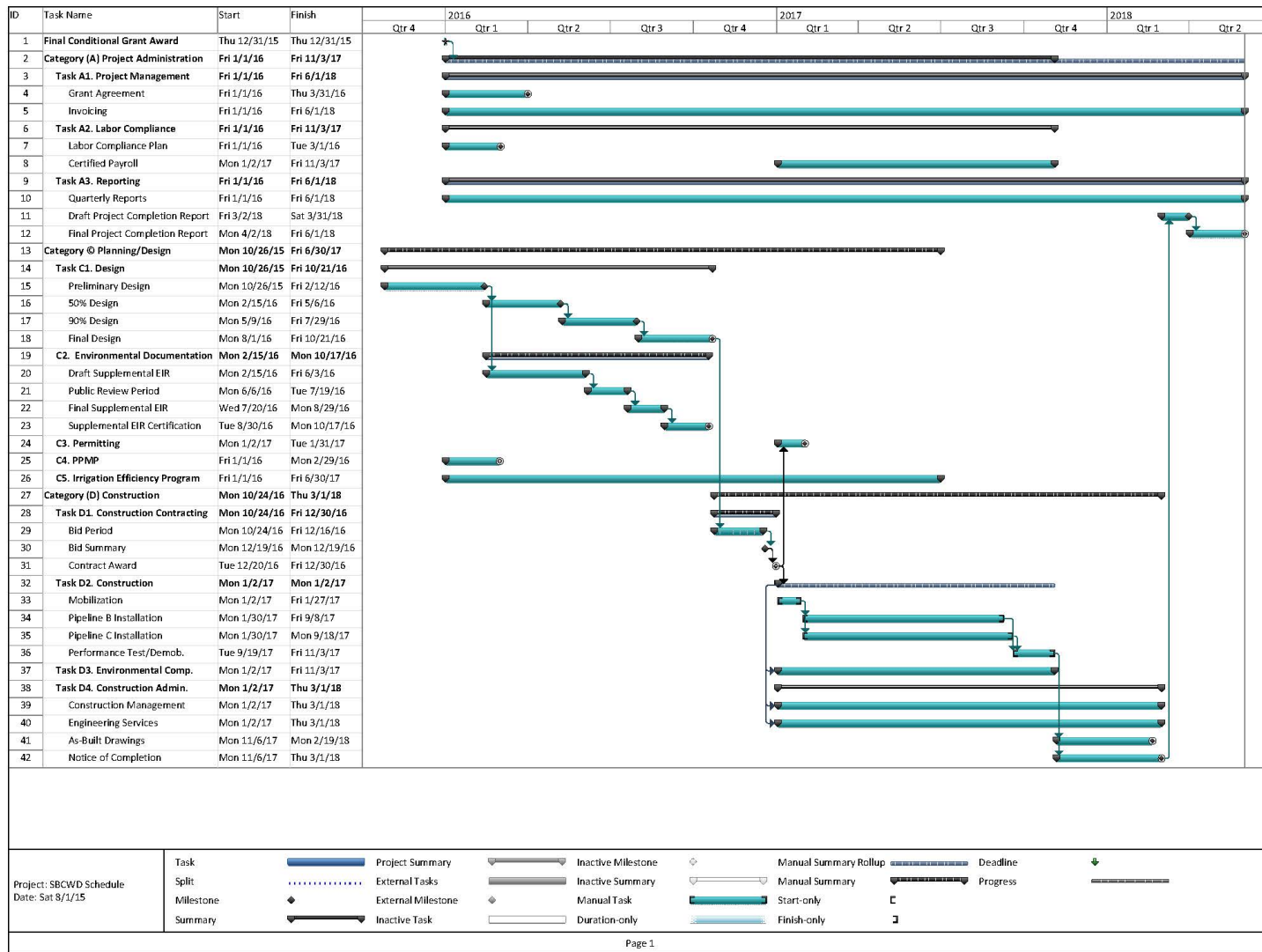
Attachment 5 is mandatory and includes a schedule for implementation of the Pajaro River Watershed Long Term Drought Proposal showing the sequence and timing of the three projects included in the proposal. The proposal is scheduled to end in September 2018 as shown in the schedule below.



4.1 PROJECT NO. 1 HOLLISTER HEXAVALENT CHROMIUM COMPLIANCE

Implementing Agency: San Benito County Water District (SBCWD)

Project Timeline: The Hexavalent Chromium Treatment Project (HCTP) is currently under design. The project end date is June 2018, with completion of the Final Grant Report. The following sections, organized by task category and consistent with the work plan and budget, describe why the schedule is realistic, reasonable, and accomplishable.



BUDGET CATEGORY (A): DIRECT PROJECT ADMINISTRATION

Work on tasks in this category will begin immediately following grant award notification.

TASK A1 – PROJECT MANAGEMENT

Task A1 begins immediately following grant award notification. Immediate project management activities involve submittal of the documentation required for grant contracting. Project management activities, including schedule and budget management and grant invoicing, will continue throughout the duration of the project (30 months).

TASK A2 – LABOR COMPLIANCE

SBCWD anticipates hiring a consultant to prepare the Labor Compliance Plan (LCP) and certifying payroll in compliance with the Labor Code. Preparation of the LCP will begin immediately following grant award and certification of payroll will continue throughout the project construction and the duration of the project.

TASK A3 – REPORTING

Task A3 begins immediately following grant award notification. SBCWD staff will prepare project progress reports detailing work completed during the reporting period for the project duration of eight reporting periods (quarters). Additionally, SBCWD staff will prepare and submit a Project Completion Report within 90 days of project completion.

Category A Direct Project Administration Task Schedule				
Task	Start Date	End Date	Milestone	Date
A1. Project Management	1/16	6/18	Grant Contracting Documentation Invoices	3/16 Quarterly
A2. Labor Compliance	1/16	11/17	Labor Compliance Plan Certified Payroll Documentation	3/16 Monthly
A3. Reporting	01/16	6/18	Progress Reports Draft/Final Project Completion Report	Quarterly 6/18

BUDGET CATEGORY (B): LAND PURCHASE/EASEMENT

There are no land or easement requirements for this project.

BUDGET CATEGORY (C): PLANNING/DESIGN/ENGINEERING/ENVIRONMENTAL DOCUMENTATION

This task category will begin in October 2015, in advance of the grant award notification.

TASK C1 – DESIGN

The HHCCP design is scheduled to start in October 2015. This task includes development of the preliminary design, 50%, 90%, and 100% design submittals as well as technical tasks to support environmental compliance, project management and as-needed design support tasks. The final design documents, including plans, specifications and engineering cost estimate, will be complete in October 2016.

TASK C2 – ENVIRONMENTAL DOCUMENTATION

As discussed in the work plan, a Supplemental EIR (SEIR) will likely be required for the HHCCP, which will tier off the 2014 EIR that was prepared for the West Hills WTP Project. Work on the supplemental EIR will begin in February 2016, after the Preliminary Design is complete. A Draft SEIR will be distributed for a 45 day public review period. The Final SEIR will consider comments received during the public review period, if any. The Final SEIR will be available in August 2016 and certified by October 2016.

TASK C3 – PERMITTING

The only permit required for the HHCCP is the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction Activity from the Regional Water Quality Control Board. The construction permit will be obtained by the contractor after the construction contract is awarded in December 2016, as described in Task D1. The permit will be secured by January 2017.

TASK C4 – PROJECT PERFORMANCE MONITORING PLAN

The Project Performance and Monitoring Plan (PPMP) will be prepared immediately following grant notification. The PPMP will outline how the HHCCP performance will be assessed and evaluated and will be prepared by SBCWD staff.

TASK C5 – IRRIGATION EFFICIENCY PROGRAM

The Irrigation Efficiency Program will be modeled after the successful partnership and program in the Pajaro Valley between the Santa Cruz Resource Conservation District (RCD) and Pajaro Valley Water Management Agency and will begin immediately following notification of grant award. The program will operate for 18 months.

Category C Planning / Design / Engineering Task Schedule				
Task	Start Date	End Date	Milestone	Date
C1. Design	10/26/15	10/21/16	Preliminary Design	2/12/16
			50% Design Plans and Specifications	5/6/16
			90% Design Plans and Specifications	7/29/16
			100% Design Plans and Specifications	10/21/16
C2. Environmental Documentation	2/15/16	10/17/16	Draft Supplemental EIR	6/3/16
			Public Review Period	7/18/16
			Final Supplemental EIR	8/29/16
			Supplemental EIR Certification	10/17/16
C3. Permitting	1/1/17	1/31/17	NPDES Stormwater Permit	1/31/17
C4. PPMP	1/1/16	2/29/16	Project Performance Monitoring Plan	2/29/16
C5. Irrigation Efficiency	1/1/16	6/30/17	Irrigation Efficiency Project Documentation	Ongoing

BUDGET CATEGORY (D): CONSTRUCTION / IMPLEMENTATION

This budget category includes all tasks associated with construction, including monitoring and management activities during construction. These tasks will begin with construction contracting in October 2016 and will end with the Notice of Completion in February 2018.

TASK D1 – CONSTRUCTION CONTRACTING

This task will begin in October 2016 immediately after 100% design plans and specifications are complete and ready for bid and the Supplemental EIR is certified. This task begins with the bid advertising, includes conducting pre-bid meetings, evaluating bids and ends with awarding the construction contracts in December 2016.

TASK D2 – CONSTRUCTION

Construction will begin in January 2017 immediately following award of the construction contract. Construction activities will begin with mobilization, followed by nine months of pipeline installation, and will end with performance testing and demobilization in November 2017.

TASK D3 – ENVIRONMENTAL COMPLIANCE / MITIGATION / ENHANCEMENT

Given the HHCCP construction activities are occurring in existing rights of way, no significant environmental issues are anticipated. However, any environmental mitigation or monitoring requirements will be developed in the Supplemental EIR and implemented immediately preceding and during construction, as required.

TASK D4 – CONSTRUCTION ADMINISTRATION

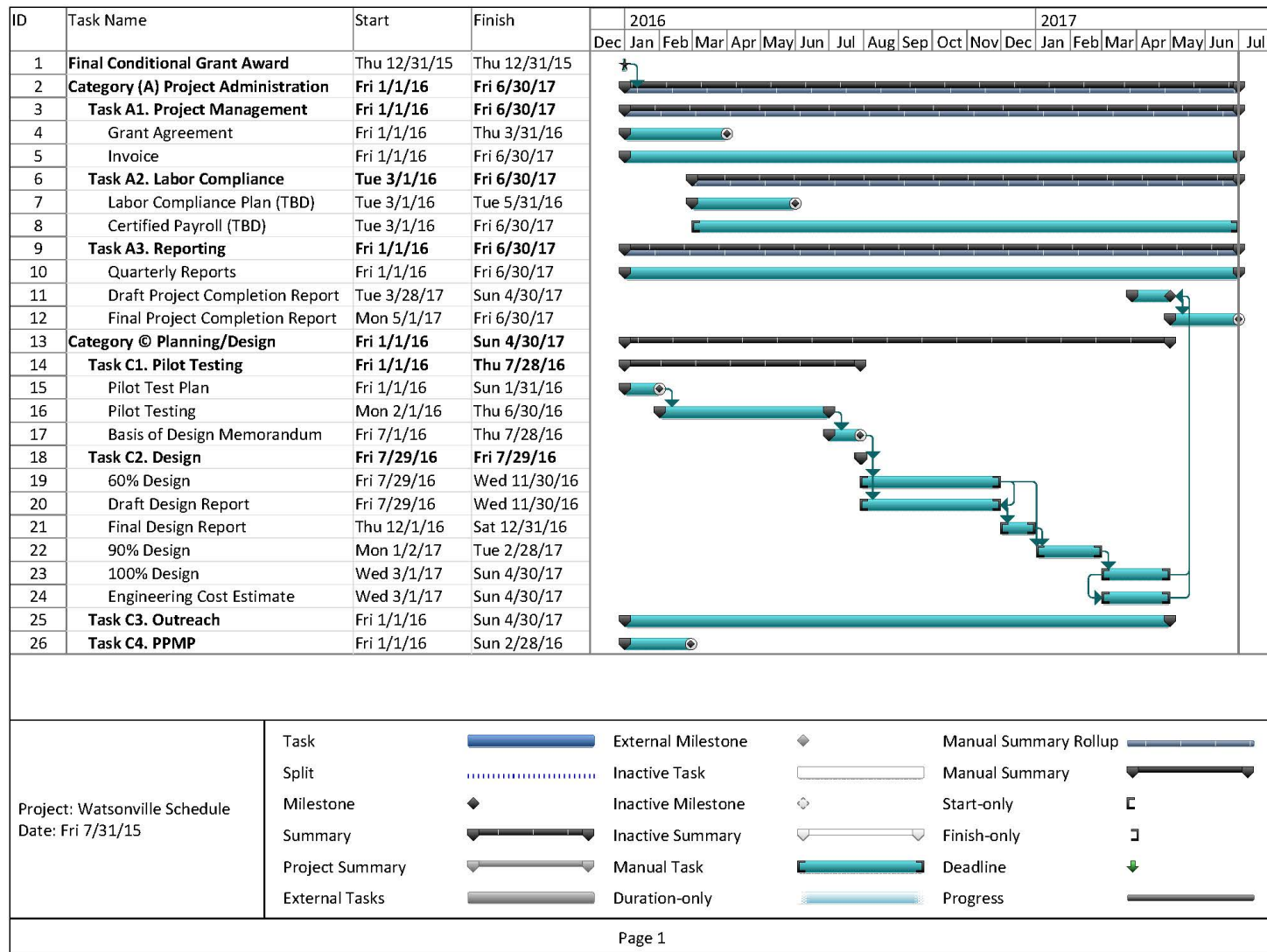
Construction administration activities will begin concurrent with the award of the construction contract and will continue throughout construction. Construction administration will continue two months after demobilization to allow for the completion of as-built drawings and the Notice of Completion.

Category D Construction / Implementation Task Schedule				
Task	Start Date	End Date	Milestone	Date
D1. Construction Contracting	10/24/16	12/30/16	Bid Period	12/16/16
			Bid Summary	12/19/16
			Contract Award	12/30/16
D2. Construction	1/2/17	11/3/17	Mobilization	1/27/17
			Pipeline Installation Complete	9/8/17
			Demobilization	11/3/17
D3. Environmental Mon.	10/18/16	11/3/17	Environmental Compliance	Ongoing
D4. Construction Admin	1/2/17	3/1/18	As-Built Drawings	2/19/18
			Notice of Completion	3/1/18

4.2 PROJECT NO. 2 HEXAVALENT CHROMIUM TREATMENT PROJECT

Implementing Agency: City of Watsonville

Project Timeline: The Hexavalent Chromium Treatment Project (HCTP) will begin immediately following final grant award. The project duration is 18 months and the end date is June 30, 2017, with completion of the Final Grant Report. The following sections, organized by task category and consistent with the work plan and budget, describe why the schedule is realistic, reasonable, and accomplishable.



BUDGET CATEGORY (A): DIRECT PROJECT ADMINISTRATION

Work on tasks in this category will begin immediately following grant award notification.

TASK A1 – PROJECT MANAGEMENT

Task A1 begins immediately following grant award notification. Immediate project management activities involve submittal of the documentation required for grant contracting. Project management activities, including schedule and budget management and grant invoicing, will continue throughout the duration of the project (18 months).

TASK A2 – LABOR COMPLIANCE

Given the HCTP project is a design and pilot testing project, it is not anticipated that a Labor Compliance Plan (LCP) will be required. However, if required, the LCP will be prepared immediately following grant contracting

TASK A3 – REPORTING

Task A3 begins immediately following grant award notification. Watsonville staff will prepare project progress reports detailing work completed during the reporting period for the project duration of five reporting periods (quarters). Additionally, Watsonville staff will prepare and submit a Project Completion Report within 90 days of project completion.

Category A Direct Project Administration Task Schedule				
Task	Start Date	End Date	Milestone	Date
A1. Project Management	1/16	6/17	Grant Contracting Documentation Invoices	3/16 Quarterly
A2. Labor Compliance	3/16	5/16	Labor Compliance Plan Certified Payroll Documentation	5/16 Monthly
A3. Reporting	01/16	6/17	Progress Reports Draft/Final Project Completion Report	Quarterly 6/17

BUDGET CATEGORY (B): LAND PURCHASE/EASEMENT

There are no land or easement requirements for this project.

BUDGET CATEGORY (C): PLANNING/DESIGN/ENGINEERING/ENVIRONMENTAL DOCUMENTATION

Work on tasks in this category will begin immediately following grant award notification.

TASK C1 – PILOT TESTING FOR WELLS 3, 7, 14, 17 AND 18

Task C1 begins immediately following grant award notification. The engineering consulting firm of Corona Environmental Consulting (Corona) will immediately start developing the pilot test plan, which will be completed in one month. The test plan will define the operational variables that will be adjusted over the course of the pilot testing. The test plan will detail the operational and sampling schedule.

Corona staff will be onsite for the first week of pilot testing to set up the equipment and start the pilot operations. During this time, the pilot testing equipment will be delivered to the site along with any additional appurtenances including chemical supplies and sampling containers. Corona staff will connect the pilot system to the raw water supply and begin start-up procedures for the pilot program. Corona will be onsite to provide operational oversight throughout the duration of the pilot testing at each well. The pilot trailer will be at each site for approximately one month. Experimentation will be conducted in a one week on, one week off schedule. That way the experimental parameters for the second week of testing can be adjusted based on the first weeks results. Data will be compiled for each well as testing is completed. Pilot testing will take five months from February through June 2016. At the conclusion of pilot testing, Corona staff will disconnect the equipment, package it and return it to the pilot equipment vendor. Corona will then synthesize the data collected and complete the Basis of Design Memorandum to inform the Task C2 design work.

TASK C2 - DESIGN FOR WELLS 2, 3, 7, 14, 17 AND 18

Task C2 begins immediately following the completion of Task C1. The purpose of this task is to finalize plans and outline specifications for the treatment design recommendations for wells 2, 3, 7, 14, 17, and 18. The consultant team will produce the 60-percent, 90-percent, and bid set design submittals. The Draft Design Report will accompany 60-percent design to document the basis of design. The duration and schedule for completing the

design submittals are based on the experience of Corona Environmental Consulting conducting many projects of a similar nature.

TASK C3 – CONSERVATION OUTREACH

Task C3 begins immediately following grant award notification. As described in the work plan, the City will produce quarterly outreach updates regarding the status of the Chromium 6 efforts with reminders of conservation programs and events. The enhanced outreach program will continue through the duration of the project.

TASK C4 – PROJECT PERFORMANCE MONITORING PLAN

Watsonville will develop and submit a Project Performance Monitoring Plan, if required. This is a DAC design project and may not require a PPMP. However, if required, the PPMP will be prepared immediately following grant award notification.

Category C Planning / Design / Engineering Task Schedule				
Task	Start Date	End Date	Milestone	Date
C1. Pilot Testing	1/1/16	7/28/16	Pilot Test Plan	1/31/16
			Pilot Testing Complete	6/30/16
			Basin of Design Memorandum	7/28/16
C2. Design	7/29/16	4/30/17	60% Design Plans and Specifications	11/30/16
			Draft Design Report	11/30/16
			Final Design Report	12/31/16
			90% Design Plans and Specifications	2/28/17
			100% Design Plans and Specifications	4/30/17
			Engineering Cost Estimate	4/30/17
C3. Outreach	1/1/16	4/30/17	Outreach Materials	Quarterly
C4. PPMP	1/1/16	2/28/16	Project Performance Monitoring Plan	2/28/16

BUDGET CATEGORY (D): CONSTRUCTION / IMPLEMENTATION

The HCTP is a design project that does not involve construction.

4.3 PROJECT NO. 3 GRANT ADMINISTRATION

Implementing Agency: San Benito County Water District

Project Description: The Pajaro River Watershed IRWM Regional Water Management Group, authorized San Benito County Water District (SBCWD) to act as the applicant and the grant manager for the Proposition 84, IRWM 2015 Grant. The project started June 1, 2015 with the initiation of the grant application and the project end date is September 1, 2018, with completion of the Final Grant Report. Grant Administration activities will occur throughout the duration of the SBCWD Hollister Hexavalent Chromium Compliance Project (HHCCP) and the City of Watsonville Hexavalent Chromium Treatment Project (HCTP) and will end with submittal of the Grant Completion Report.



BUDGET CATEGORY (A): DIRECT PROJECT ADMINISTRATION

TASK A1 – PAJARO RIVER WATERSHED LONG TERM DROUGHT PREPAREDNESS GRANT APPLICATION

This task involves the preparation and submittal of the Pajaro River Watershed Long Term Drought Preparedness Grant Application. Preparation of the grant application began on June 1, 2015 and ended with submittal of the grant application no later than August 7, 2015.

TASK A2 – AGREEMENT ADMINISTRATION

SBCWD will be the grant administrator and be responsible for all grant administration activities as described in the work plan. DWR anticipates making draft funding recommendations in November 2015. Tasks associate with administration of the grant will begin immediately after draft funding recommendations, starting with development and submittal of all documentation necessary to execute the grant agreement with DWR and the sub-agreement with the City of Watsonville. Grant Administration activities will continue throughout the duration of the grant and are scheduled to end in September 2018 after submittal of the Final Grant Report.

TASK A3 – INVOICING

SBCWD will be responsible for compiling invoices for submittal to DWR quarterly, as described in the work plan. Invoicing will begin immediately following grant contracting and will continue throughout the duration of the grant.

TASK A4 – PROGRESS REPORTS AND PROJECT/GRANT COMPLETIONS REPORTS

SBCWD will be the grant administrator and be responsible for submitting progress reports, project completion reports, and the grant completion reports to DWR, as described in the work plan. Invoicing will begin immediately following grant contracting and will continue throughout the duration of the grant and will end with the submittal of the Final Grant Report.

Category A Direct Project Administration Task Schedule				
Task	Start Date	End Date	Milestone	Date
A1. Grant Application	6/1/15	8/7/15	Grant Application	8/7/15
A2. Grant Administration	11/1/15	9/1/18	DWR Grant Agreement Watsonville Grant Sub-Agreement Grant Administration Documentation	3/16 3/16 Ongoing
A3. Invoicing	3/16	9/1/18	Invoices	Quarterly
A4. Reporting	3/16	9/1/18	Progress Reports HCTP Draft/Final Project Completion Report HHCCP Draft/Final Project Completion Report Draft Grant Completion Report Final Grant Completion Report	Quarterly 6/17 6/18 7/18 9/18